

# CONSTRUCTION CONTROL DRAWING

## 55PC0211

WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED,  
GENERAL PURPOSE, LIGHT AIRFRAME

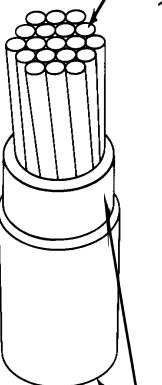
Date 07-08-04

Revision H

This specification sheet forms a part of the latest issue of Raychem Specification 55PC.

CONDUCTOR - TIN-COATED COPPER

INSULATION - RADIATION-CROSSLINKED,  
MODIFIED ETFE



CONSTRUCTION DETAILS

CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (in.)			MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.)	FINISHED WIRE DIAMETER (in.)			WEIGHT (lbs/1000 ft.)	
	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT		LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
19 x 38	.0175	.0183	.0191	41.3	.0328	.0345	.0362	1.38	1.52
19 x 36	.0225	.0233	.0241	26.2	.0378	.0395	.0412	1.98	2.13
19 x 34	.0285	.0293	.0301	16.2	.0438	.0455	.0472	2.90	3.06
19 x 32	.0365	.0375	.0385	9.88	.0523	.0540	.0557	4.38	4.57
19 x 30	.0452	.0464	.0476	6.23	.0616	.0635	.0654	6.59	6.90
19 x 29	.0514	.0527	.0538	4.81	.0690	.0710	.0730	8.37	8.70
19 x 27	.0644	.0659	.0674	3.06	.0838	.0860	.0882	12.88	13.33
37 x 28	.0825	.0845	.0865	2.02	.1020	.1047	.1074	19.73	20.30
37 x 26	.1050	.1070	.1090	1.26	.1252	.1290	.1328	31.12	32.13
133 x 29	.158	.163	.169	.701	.188	.196	.203	56.8	59.9
133 x 27	.198	.205	.212	.445	.233	.242	.251	89.7	94.7
133 x 25	.250	.260	.268	.280	.300	.311	.322	145.	154.
665 x 30	.320	.330	.340	.183	.370	.383	.397	227.	240.
817 x 30	.360	.370	.380	.152	.410	.424	.438	278.	291.
1045 x 30	.395	.415	.425	.116	.449	.466	.483	343.	366.
1330 x 30	.440	.462	.475	.091	.505	.525	.545	450.	481.

### WIRE RATINGS AND ADDITIONAL REQUIREMENTS

INSULATION ELONGATION AND TENSILE STRENGTH: SHRINKAGE: 230 ± 3°C for 1 hour, 0.125 in. (maximum) in 12 in.

Total Insulation, Elongation, 50% (minimum); VOLTAGE WITHSTAND TEST (Post-Environmental): 2500 volts (rms)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum); PART NUMBER: The "\*" in the part numbers above shall be replaced by

INSULATION FLAWS: Spark Test, 3.0 kV (rms); color code designators.

± 3°C for 1 hour; Impulse Dielectric Test, 8.0 kV (peak); 1/ Example: AWG 22, white: 55PC0211-22-9

), 500 g weight; INSULATION THICKNESS: .008 in. (nominal) total insulation

AWG 22, white with black stripe: 55PC0211-22-90

*should evaluate the suitability of this product for their application. Specifications are subject to change without notice. reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.*

INS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-481. OTHER CODES AND SUFFIXES MAY BE USED TO IDENTIFY THE PART NUMBER, AS NECESSARY. TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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